

D - Remarks

Claims 15-27, 29, 33 and 35 have been cancelled. Claims 28, 30-31, 34 and 36-37 have been amended based on specification page 4. Claims 32 and 38-40 remain in this application as originally filed.

Priority

This application corresponds to the U.S. national phase of International Application No. PCT/EP00/07284. The priority document was provided to the receiving office and transmitted to the International Bureau as shown by the copy of the Form PCT/IB/304 enclosed. According to PCT Rule 17(2), the International Bureau provides a copy of the priority document to the designated offices and no designated office shall ask the applicant himself to provide such copy. It is therefore assumed that the requirements of 35 U.S.C. 119(b) have actually been fulfilled.

Claim Rejections – 35 USC §112

Following the amendment of claim 28, it is believed that this objection has been overcome.

Claim Rejections – 35 USC §102

The Examiner rejects claim 28, 29 and 31-35 under 35 U.S.C. 102(e) as being anticipated by Barber et al. (US Patent 6,047,240).

Applicant respectfully disagrees since it appears that Barber et al. relates to a method for determining parameters of a formation that significantly differs from the method of the invention.

Actually, Barber describes a method of getting an estimate of the actual formation parameters R_{xo} , R_i and d_i (invasion radius) that is essentially based on the assumption that the shoulder bed effect and the invasion effect are independent. Consequently, each effect is independently corrected. This point is made clear for instance from column 7, lines 6-9, where it is explained that the correction consists in sequentially applying the maximum entropy inversion process (as schematized by the flowchart of figure 5) followed by 1D radial inversion. This is actually what is often referred in this art as a 1D+1D correction.

According to the invention on the other hand, the correction of the shoulder bed effect and of the invasion effect are done simultaneously, in other words, all parameters are simultaneously updated. This leads to a correction method that provides formation parameters closer to the reality, in particular with some measuring tools such as a Laterolog. Moreover, the number of iteration is reduced since in reality, the shoulder bed effect and the invasion effect are indeed not independent.

It results from the above that Barber et al. does not anticipate the invention.

Claim Rejections – 35 USC §103

Barber et al. is prior art under 102(e). A terminal disclaimer is hereby enclosed to obviate any double patenting rejection over the Barber et al. prior art.

The Applicant believes that amendments to the claims deal with all outstanding matters, raise no new matter issues and place the application in order for allowance. Favorable reconsideration on the basis of these amendments and remarks is requested. In the event that the Examiner intends to maintain any rejection, it is requested that these amendments be entered in order to place the application in better state for appeal.

Respectfully submitted

By: 
Brigitte Jeffery Echols

Date: 23 Dec 2003
Schlumberger Technology Corporation
200 Gillingham Lane
Sugar Land, TX 77478
(281) 285-7067

Reg # 38925

PATENT COOPERATION TREATY

PCT

NOTIFICATION CONCERNING
SUBMISSION OR TRANSMITTAL
OF PRIORITY DOCUMENT

(PCT Administrative Instructions, Section 411)

From the INTERNATIONAL BUREAU

To:

MENES, Catherine
Etudes & Productions Schlumberger
26, rue de la Cavée
B.P. 202
F-92142 Clamart Cedex
FRANCE

18 JUL. 2001

Date of mailing (day/month/year) 11 July 2001 (11.07.01)	IMPORTANT NOTIFICATION
Applicant's or agent's file reference WO 21.0886	
International application No. PCT/EP00/07284	International filing date (day/month/year) 25 July 2000 (25.07.00)
International publication date (day/month/year) 15 February 2001 (15.02.01)	Priority date (day/month/year) 05 August 1999 (05.08.99)
Applicant SCHLUMBERGER TECHNOLOGY B.V. et al	

1. The applicant is hereby notified of the date of receipt (except where the letters "NR" appear in the right-hand column) by the International Bureau of the priority document(s) relating to the earlier application(s) indicated below. Unless otherwise indicated by an asterisk appearing next to a date of receipt, or by the letters "NR", in the right-hand column, the priority document concerned was submitted or transmitted to the International Bureau in compliance with Rule 17.1(a) or (b).
2. This updates and replaces any previously issued notification concerning submission or transmittal of priority documents.
3. An asterisk(*) appearing next to a date of receipt, in the right-hand column, denotes a priority document submitted or transmitted to the International Bureau but not in compliance with Rule 17.1(a) or (b). In such a case, the attention of the applicant is directed to Rule 17.1(c) which provides that no designated Office may disregard the priority claim concerned before giving the applicant an opportunity, upon entry into the national phase, to furnish the priority document within a time limit which is reasonable under the circumstances.
4. The letters "NR" appearing in the right-hand column denote a priority document which was not received by the International Bureau or which the applicant did not request the receiving Office to prepare and transmit to the International Bureau, as provided by Rule 17.1(a) or (b), respectively. In such a case, the attention of the applicant is directed to Rule 17.1(c) which provides that no designated Office may disregard the priority claim concerned before giving the applicant an opportunity, upon entry into the national phase, to furnish the priority document within a time limit which is reasonable under the circumstances.

Priority date	Priority application No.	Country or regional Office or PCT receiving Office	Date of receipt of priority document
05 Augu 1999 (05.08.99)	99/10178	FR	19 Sept 2000 (19.09.00)

The International Bureau of WIPO
34, chemin des Colombettes
1211 Geneva 20, Switzerland

Facsimile No. (41-22) 740.14.35

Authorized officer

Lazar Joseph Panakal

Telephone No. (41-22) 338.88.38